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Dkt. No.

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Client Ref.

061063

0356139

OSP-19398

Applicant: HOURAI et al.

Appln. No.: 10/587,039

Filing Date: July 24, 2006

Examiner: Unassigned

Group Art Unit: 1722

Date: August 1, 2007

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of

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U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
FH.	AR 2003/0022003 A1	01/30/2003	Park			
	BR					
	CR					
	DR					
	ER					
	FR					
	GR					
	HR					
	IR					
	JR					
	KR					
	LR					
	MR					
	NR					

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
						Enclosed	No	Enclose	No
FH.	OR	2001-0090002	10/17/2001	Japan		X	-	-	-
FH.	PR	486749	05/11/2002	Taiwan		X	-	-	-
	QR								
	RR								
	SR								
	TR								
	UR								
	VR								
	WR								
	XR								

OTHER (Including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

FH.	YR	Office Action dated May 2, 2007 on the counterpart Taiwanese Patent Application No. 094128981.						X	
	ZR								
	AAR								
	BBR								

Examiner

*[Signature]*

Date Considered:

8/15/2007

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IAP6 Rec'd PCT/PTO 24 JUL 2006

PTO/SB/08b (07-05)

Approved for use through 06/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO		Complete if Known <b>201587039</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	<b>201587039</b>
		Filing Date	07/24/2006
		First Named Inventor	MASATAKA HOURAI
		Art Unit	<b>1722</b>
		Examiner Name	UNASSIGNED <b>Hitesher</b>
Sheet 1 of 1	Attorney Docket Number	061063-0356139	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<b>FH</b>	I.	MASAAHI SUEZAWA, "Hydrogen and Crystal Technology - controlling of ultimately light element," 110th Workshop Text, JPN Soc. Appl. Phys., Div. Science and Technology of Crystals, p. 11-18, (6/3/1999).	
<b>FH</b>	II.	E. IINO ET AL., "Cavities owing to Hydrogen in Si single crystals grown by continuously charging CZ method," Materials Science and Engineering, p. 146-149, B6 (1996).	
<b>FH</b>	III	T.H.WANG, ET AL., "Charge carrier recombination centers in high-purity, dislocation-free, float-zoned silicone due to growth-induced microdefects," Journal of Crystal Growth, p. 155-161, Vol. 109 (1991).	
<b>FH</b>	IV.	YOSHIMITSU SUGITA, "X-Ray Observations of Defect Structures in Silicone Crystal," Japanes Journal of Applied Physics, Vol. 4 ( No. 12), p. 962-972, (7/9/1965).	

Examiner Signature <b><i>Sehigishi</i></b>	Date Considered <b>8/16/2007</b>
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24 JUL 2006

PTO/SB/08a (07-05)

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	1	of	2
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**Complete if Known**

Application Number	10/587030
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Filing Date	07/24/2006
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First Named Inventor	MASATAKA HOURAI
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Art Unit	772
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Examiner Name	H. P. S. S. S.
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Attorney Docket Number 1061063-0356139

## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>o</sup>
		Country Code*	Number * Kind Code* (if known)				
F.H.	1	JP	2001-220289	08/14/2001	OKUI, ET AL.	—	
F.H.	2	JP	2002-187794	07/05/2002	MURAKAMI, ET AL.	—	
F.H.	3	JP	2000-281491 A	10/10/2000	IKARI, ET AL.	—	
F.H.	4	JP	2001-335396	12/04/2001	VON AMMON, ET AL.	—	
F.H.	5	JP	2001-151597	06/05/2001	Mitsubishi Materials	—	

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number 10/587039  
Filing Date 07/24/2006  
First Named Inventor MASATAKA HOURAI  
Art Unit 1720  
Examiner Name Hiyaka  
Attorney Docket Number 061063-0356139

Sheet 2 of 2

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-			
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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
FH	6	JP	2004-182525	07/02/2004	—	—	
FH	7	JP	11-189495 A	07/13/1999	—	—	

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Signature

*[Signature]*

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8/26/2007

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